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fied and was at the side of his cot when he revived.

Dr. Hicks said that he remembered for the state at Wilson's trial,

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THE QUALITY OF GAS

The Consolidated Gas Company, in its annual report to its stockholders, on January 22, 1922, said:

"From time to time during the year, testimony has been taken by the Public Service Commission as to the advisability of discontinuing row in New York City, as has already been done in the rest of the State, the Nation and the world, the candle-power standard of quality for gas and substituting therefor a thermalunit standard

"The oft-reiterated position of this Company on this question has been made very clear on various occasions during the year, to the effect that, within the limits of operating possibility, this Company and its subsidiaries do furnish, and will continue to furnish, to their consumers, gas of such standard of candle-power or heating value as may be desired and directed by the pub through its official representatives, and that this Company will, in turn, require the payment of a reasonable rate for gas of the quality thus prescribed. So long as 22 candle-power gas is prescribed for this City by statute or Commission order, the Company will continue to furnish that quality of gas and will expect to be paid therefor a commensurate rate.

"This attitude of compliance with the regulatory requirements does not alter in any respect the desire of the company to be authorized to furnish to its consumers gas of the quality which will render to them the most efficient and economical service, and to adjust its rates to that end. The Company's executives and engineers realize, of course, that continuance of the 22-candlepower standard does not give the maximum results to the user of gas, in proportion to the price necessitated by the cost of making gas of that standard. They have not refrained from disclosing their opinion or the facts upon which it is based, when interrogated by the regulatory authorities or by representative

In the report made to the Commission, on December 22, 1021, by the Joint Conference Committee created by the Commission, the Company's representatives, after setting forth their view that the consumers ought to have the benefit, in reduction in rate, of such economies in manufacturing cost as are secured through a change in standard, added:

"The Company representatives state their inability to join in the recommendation of any 'block' schedule contingent upon the adoption of a 550 British thermal-unit standard which does not give to the small consumers a contemporaneous reduction in the charge for gas consumed."

That attitude has not been changed. At the opening of the hearings instituted by the Commission, on its own motion, to ascertain whether a change to a thermal standard would be in the public interest, counsel for the Consolidated Gas Company and its affiliated companies said, on February 6, 1922:

We are here pursuant to an order of the Commission. As to neither of the subject matters of this inquiry is there any petition before this Commission from these companies-neither as to a change in standard nor as to the establishment of graduated rates. Our position in a very few words is this: We have in the past, and we shall in the future, supply to our consumers the quality of gas which is prescribed by the public policy of the State. whether that is 22 candle-power or some lesser candle-power or some standard of thermal content.

"I am not relying in that respect solely upon the companies' own tests. We have recently seen published in one of the news-papers the detailed tests made by the City of New York with respect to each one of the Consolidated Companies, and each one of their plants, over a period of three or four years; * * * and it

appears that in the case of no company, no plant, no year, was there a violation or a falling below 22 candle-power.

"We know, if the matter becomes pertinent, that the present candle-power standard is wasteful of oil. We know that we can give to all consumers at least as good service, and to most of them much better service, at a less cost to manufacture than would be the result of continuing an obsolete standard; but, so far as the companies are concerned, the question whether this saving shall be effected and the question of what standard is best for this City, is not a matter as to which we take issue.'

The views above expressed as to the desirability of change to a modern standard have been sustained by every witness who has testified before the Commission with any technical training or first-hand knowledge of the experience of other States and countries. The expert public representatives, whose testimony has been given solely from the point of view of the public interest, have included the following, all summoned by the Commission:

Charles D. Jenkins, Chief of the Gas Inspection Department of Massachusetts, which has had a 528 thermal-unit (commonly called B.t.u.) standard in effect since 1917.

Fdward J. Cheney, until recently Chief Gas Engineer of the New York Public Service Commission, Second District, under the authority of which a 585 B.t.u. standard has been in force since 1916 for all of the State except New York City. Philander Betts, Chief Engineer of the Public Utilities Commission in New Jersey, which has had a 525 B.t.u. standard in

effect since 1920. Albert I. Phillips, formerly of the United States Bureau of Standards, now service engineer of the American Gas Association. William Merrifield, Gas Engineer of the New York Public Service

This expert opinion is not confined to regulatory authorities or company engineers. Mr. A. S. B. Little, Gas Engineer of the Illinois Commission until 1920 and since then the principal witness for the City of New York in gas-rate cases, testified in a local Court:

"Q. Is it your judgment that the maintenance of this candlepower standard, while it may operate to the benefit of the oil companies, does not operate to the benefit of the public?

A. It does not operate to the benefit of the public. * * * "Q. Is it your judgment this candle-power standard is a wrong standard?

"Q. Do you think it is the proper way to measure the value of the gas at all?

"A. I think it is a crime; that is what I think. "Q. And it adds generally to the cost of making gas without corresponding advantages to the consumers? "A. Correct; the consumers cannot get the advantage out

of the gas at 22 candle-power." The Annual Report of the New York City Department of Water Supply, Gas and Electricity for 1916 stated:

High candle power of gas is of value only where gas is used in open flame burners as an illuminant; where used for cooking and heating, and for lighting with mantle burners, the constituents of the gas which enhance its illuminating power clog the burners and are a positive detriment in producing heat and light."

In accord with the testimony before the Commission advising a standard not higher than 550 B. t. u., Mr. Milo R. Maltbie, employed by the City of New York and other municipalities as a witness in many cases before the Commission, recently recommended a 530 B. t. u. standard for the City of Philadelphia,

. . . Naturally, in all heating, cooking and most industrial operations, it is heat that is desired; and the heat content of the gas is, therefore, the real measure of its usefulness. The only instance where candle-power is of any moment as a measure of utility is where gas is used for producing illumination in open-flame burners, and this is a wasteful method of securing

"Although heating value is the best measure of usefulness per unit of quantity, it does not follow that high heating standards are desirable. Indeed, the reverse may be true. * * * Gases of a low heating value contain less of these unsaturated hydrocarbons, can be efficiently burned through a wider range of adjustment, and are, therefore, more satisfactory as a general proposition under the varying conditions of supply and use which must necessarily exist in a large city."

The United States Supreme Court, on March 6, 1922, said, as to gas supplied in the City of New York in 1918 and 1919:

"The calorific quality had become more important to most consumers than the illuminating one."

The United States Bureau of Standards in its recent edition of its Circular No. 32, "Standards for Gas Service," gives expert and disinterested advice:

"Gas was originally used almost exclusively for open-flame lighting and naturally, therefore, most of the early requirements as to the quality of the gas related to the amount of light produced in such burners-i. e., to the open-flame candlepower of the gas. However, at the present time cooking, water heating, mantle lighting, and industrial applications of gas consume by far the larger percentage of the total gas made, and in these operations it is the heat given out in combustion of the gas, that is of importance to the user. Only a few per cent. of the gas distributed in this country is used in open flame, and, in fact, probably not over two per cent. of it should be so used, considering only economy to the consumer.

"As a result of this change in conditions, heating value requirements have largely replaced candle-power requirements. In fact the situation has so changed that there is no longer any justification for the adoption of new candle-power regulations. The heating-value standard should supersede the candle-power requirement, and the latter should be dropped.

. . In general, it is believed that the best value for adoption will be found between 525 and 585 B. t. u. Where it can be shown that substantial economies will result, and that the public will receive as good or better service because of greater uniformity, and suitable limits are fixed to insure this, values even lower than this may be adopted."

It is not the expectation or desire of the New York gas companies to profit financially from any change in standard. Although as good or better service will be afforded to consumers by gas furnished under a thermal standard, the savings effected in manufacturing expense will be passed along to the public. The interest of the companies lies in being permitted to furnish a gas which will give to their patrons a more efficient and dependable service for the money paid, because it is only through good service that their business can grow and prosper.

CONSOLIDATED GAS COMPANY OF NEW YORK Geo. B. Cortelyou,

President.